

Name:

Due Date:

Class:

Count the Discount

A local store has a sale rack for clearance merchandise. The sign on the rack says, "Marked down an additional 20% each day!"

Sten has been thinking about buying a jacket that costs \$100. The clerk tells him it will be moved to the sale rack tomorrow. Sten is happy about this and decides he'll go back to the store in five days when the jacket will be free.



When he gets to the store five days later, he sees that the jacket is not actually free. What price is really marked on the jacket?

Bonus: Why did Sten think it would be free? How would you explain to Sten why his reasoning is incorrect?

Please answer the problem on a separate piece of paper. You must include all your calculations and an explanation of how you got your answer. Your paper will be scored in the following way:

- 4 The answer and the bonus are correct, you have included all your calculations, and the explanation is thorough and understandable.
- 3 The answer is correct, you have included all your calculations, and the explanation is complete and clear to the reader.
- 2 The answer is missing one of the items mentioned above.
- 1 The answer is incorrect, and the explanation or calculations are poor or missing.
- 0 Minimal or no effort was made to solve the problem.
- All late work is marked down a grade.

